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January 4, 2023

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Via UPS and Email – genew@finellicon.com & landuseboard@harmenytup-nj.gov

Mr. Eugene Weber Zoning Officer 205 Route 31 N Washington, N.J. 07882 Ms. Kelly Smith Board Clerk 3003 Belvidere Road Phillipsburg, N.J. 08865

RE: NOTICE OF APPEAL PER N.J.S.A. 40:55D-70A

Upgrade of an Existing FCC Licensed Wireless Telecommunication Facility

Appellant: T-Mobile/Sprint

Premises: 318 Garrison Road

318 Garrison Road, Phillipsburg (Harmony Twp.), NJ 08865

Block 38, Lot 1

Site No.: NJ01221A

Dear Mr. Weber and Ms. Smith:

TAKE NOTICE that the appellant, Sprint Spectrum, LP (referred to as "T-Mobile/Sprint"), the lessee of a portion of the property located at 318 Garrison Road, Phillipsburg, N.J. 08865, and designated on the Borough tax maps as Block 38, Lot 1 (the "Property"), hereby appeals to the Harmony Township Land Use Board from the order, determination, or decision of the Zoning Officer, Mr. Eugene Weber, made on the 4th day of January, 2023, denying a zoning permit to T-Mobile/Sprint to upgrade an existing FCC licensed wireless telecommunication facility on the Property in the AR-250 Zone (see attached zoning denial). T-Mobile/Sprint is successor in interest to Sprint via corporate merger and now operates all former Sprint antenna facilities. T-Mobile/Sprint seeks to modify this former Sprint facility so that it will provide reliable and speedy service on the T-Mobile/Sprint network.

The Property is currently developed with a 180' tall electric transmission tower and an existing T-Mobile/Sprint wireless telecommunication facility affixed thereto. The existing T-Mobile/Sprint wireless telecommunication facility includes, but is not limited to, six (6) panel antennas and nine (9) RRU's mounted to the existing tower at an antenna centerline height of 185'-5" (i.e. 188'-4" to top of antennas) as well as one (1) equipment cabinet, one (1) batter cabinet and appurtenances on the ground on an existing concrete pad within an existing fenced compound.

Mr. Eugene Weber Zoning Officer

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Page 2

T-Mobile/Sprint proposes to upgrade the existing facility as follows: (i) remove all six (6) existing antennas from the existing electric transmission tower and to install six (6) new antennas on the tower at a new antenna centerline height of 186'-6" (i.e., 190'-5" to the top of the antennas); (ii) remove nine (9) RRU's and install six (6) new RRU's; (iii) remove the existing T-Mobile/ Sprint equipment cabinet, battery cabinet, DC and Fiber boxes and steel mounting platform and replace same with 1 new cabinet and 1 new battery cabinet installed directly on the existing concrete pad; and (iv) install 3 new cables.

The appellant alleges error in the order, requirement, decision or refusal of said Administrative Officer to issue a zoning permit on the basis that site plan relief is required. As outlined in the attached legal memorandum, T-Mobile/Sprint asserts that the proposed upgrade of the existing wireless telecommunication facility is exempt from discretionary zoning relief per 47 U.S.C.A. 1455, FCC Order 14-153, FCC Declaratory Ruling 20-75 and N.J.S.A. 40:55D-46.2, and that a zoning permit should have been issued without the need for variance, site plan or any other relief under the Municipal Land Use Law. T-Mobile/Sprint also reserves the right to advance additional arguments under any applicable local, state and federal laws or regulations in support of the appeal at the time of public hearing.

TAKE FURTHER NOTICE that you are hereby required to immediately transmit to the Secretary of the Land Use Board all papers constituting the record upon which the action appealed from was taken, in accordance with the Rules of the Land Use Board and the statue in such case made and provided.

TAKE FURTHER NOTICE T-Mobile has the further right to appeal the Zoning Officer's denial of this eligible facilities request directly to federal court on a summary basis and the filing of this appeal to the Land Use Board shall not constitute a waiver or limitation of T-Mobile's additional appeal rights under any applicable local, state and/or federal laws or regulations. Moreover, T-Mobile expressly reserves its rights to appeal the Zoning's Officer's denial to any court of competent jurisdiction concurrently with this appeal to the Land Use Board.

TAKE FURTHER NOTICE that the appellant will be requesting site plan relief or a waiver of site plan relief, as well as any other relief deemed required, in the alternative, from the Joint Land Use Board with respect to applicable sections of the zoning ordinance which may deemed required and said request for relief in the alternative shall not constitute a waiver of T-

Mr. Eugene Weber

Zoning Officer

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Page 3

Mobile/Sprint's appeal rights under any applicable local, state and/or federal laws. Enclosed please find a copy of a legal memorandum citing the basis for this appeal and, in the alternative, site plan relief and/or a waiver of site plan relief.

Date: January 4, 2023

Frank Ferraro, Esq.

Attorney for Appellant, T-Mobile/Sprint

FF/enc.

(NOTE: THIS NOTICE OF APPEAL MUST BE SERVED UPON THE ADMINISTRATIVE OFFICER FROM WHOM THE APPEAL IS TAKEN WITHIN 20 DAYS OF THE DATE OF THE ACTION WHICH IS APPEALED)

Cc: Gregory Gianforcaro, Esq. – Land Use Board Attorney (courtesy copy via email – greg@gianforcarolawfirm.com

TOWNSHIP OF HARMONY APPLICATION FOR ZONING PERMIT

NON-REFUNDABLE APPLKATION FEE OF \$20.00 CASH OR CHECKS MADE OUT TO THE TOWNSHIP OF HARMONY

PRINT CLEARLY WITH INK, do not use pencil. Please answer all questions. Attach a plot plan or survey of the property, drawn to scale, showing what exists now on the property and what changes you propose to make. INCLUDE DISTANCES FROM ALL YOUR PROPERTY LINES AND EXISTING STRUCTURES/WELL/SEPTIC Include existing and proposed structures, septic areas, pools, sheds, wall location, paved areas, sig ns, etc. Show the dimensions of each. Ifa new residential dwelling is proposed, show the footprint dimension and the livable floor area of each floor and each dwelling unit. Livable floor area does not include the floor space taken by basement, cellar or garage. Plans for the proposed construction

must accompany application. If the applicant is other than the property owner, an affidavit of ownership may be

Incos of Applicant C/o Frank Ferraro, Esq., Ferraro & Stamos 7, 22 Paris Ave, Ste. 105, Rockleigh, NJ 07647 318 Garnson Rd., Phillipsburg, NJ 08865 7, 22 Paris Ave, Ste. 105, Rockleigh, NJ 07647 318 Garnson Rd., Phillipsburg, NJ 08865 7, 22 Paris Ave, Ste. 105, Rockleigh, NJ 07647 318 Garnson Rd., Phillipsburg, NJ 08865 7, 22 Paris Ave, Ste. 105, Rockleigh, NJ 07647 318 Garnson Rd., Phillipsburg, NJ 08865 7, 22 Paris Ave, Ste. 105, Rockleigh, NJ 07647 318 Garnson Rd., Phillipsburg, NJ 08865 8, 201-767-4122 21	ress of Applicant c/o Frank Ferraro, Esq., Ferraro & Stamos, 22 Paris Ave, Ste. 105, Rockleigh, NJ 07647 the 201-767-4122 It is the present use of the principal building? FCC License Wirestanas and 9 RRUs affixed to a 180' tall electric transmiss intels out the ground: It is the proposed use of the principal building? T-Moblie/Sprint principal building? T-Moblie/Sprint principal building? T-Moblie/Sprint principal building? T-Moblie/Sprint principal buildings of the proposed use of the principal building? T-Moblie/Sprint principal buildings of the proposed use of the principal buildings of the proposed with five variance of the proposed at its the present use(s) of any accessory building(s)? The proposed it is the present use(s) of any accessory building(s)? The proposed it is the present use(s) of any accessory building(s)? The proposed it is the present use(s) of any accessory building(s)? The proposed it is the present use(s) of any accessory building(s)? The proposed it is the present use of any new structures or additions for proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures or additions for the accent proposed uses of any new structures	Address of Owner (if different) 318 Garnson Rd., Phillipsburg, NJ 08865 Phone 201-767-4122 less telecommunication facility including 6 ion tower at a height of 188'-4" and equipment reposes to modify the existing facility by swapping out 6 sw RRU's at a maximum height of 190'-5". On the ground, 'I- ry cabinet, DC and Fiber boxes and steel mounting platform that installed on the existing concentrated Binally, 3 moveralles This existing facility modification qualifies as an "eligible hange to the facility as exclusively defined by the FCC. As such, egulation and all approvals/permits must be approved within 60 as request" stutus. Please see attrached legal indidendum: lassed upon applicable federal law, the applicant requests that a modification of existing T-Mobil /Sprint wireless lation(s) to the Planning Board or the Board of dates and action(s) of the Board 38, 1 Block No Lot No seri bed above and an the attached plot plan or milding permit may be required Answers to the
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REASON FOR DENIAL: Pursuant to Chapter 525-33.1(9) of the Harmony Code, no modification shall be made to an existing wireless communications facility without the review and approval of a site plan by the Land Use Board. Based	Amt. Fee Received Date Received	Date Mailed To Zoning
existing wireless communications facility without the review and approval of a site plan by the Land Use Board. Based	Date Permit Issued:	Date Denial Issued: January 4, 2023
Significant of the second of t	existing wireless communications facility without the review	and approval of a site plan by the Land Use Board. Based i
ZONING RELIEF REQUIRED FROM:	ZONING RELIEF REQUIRED FROM:	A STATE OF THE STA

Elland Milly P.E., 25. Signatury of Zoning Officer

Ferraro & Stamos, LLP

Attorneys at Law

Westchester, N.Y. Office 75 South Broadway, Suite 400

White Plains, N.Y. 10601 (914) 684-2088

Mailing Address: P.O. Box 158 Rockleigh, NJ 07647-0158

FRANK FERRARO*

CONSTANTINE STAMOS*

*Member of NJ & NY Bars frankf@ferrarostamos.com deans@ferrarostamos.com

Rockleigh Business Center 22 Paris Avenue, Suite 105 Rockleigh, N.J. 07647-0518 Tel: (201) 767-4122 • Fax: (201) 767-4223 www.ferrarostamos.com

Via UPS and Email - genew@finellicon.com & clerk@hamonytwp-nj.gov

To:

Mr. Eugene Weber

Ms. Kelly Smith

Zoning Official

Clerk

205 Route 31N

Washington, N.J. 07882

205 Route 31N Washington, N.J. 07882

From:

Frank Ferraro, Esq.

Ferraro & Stamos LLP

Attorneys for T-Mobile/Sprint

RE:

T-Mobile/Sprint

Zoning Permit/Exemption Request to Upgrade Existing Wireless

Telecommunication Facility on the Property

318 Garrison Road, Phillipsburg (Harmony Twp.), N.J. 08865

Block 38, Lot 1

Site number: NJ01221A

Date:

1/3/2023

LEGAL MEMORANDUM ON BEHALF OF T-MOBILE/SPRINT REQUESTING A DETERMINATION THAT THE PROPOSED FACILTY UPGRADE IS EXEMPT FROM PLANNING BOARD OR ZONING BOARD OF ADJUSTMENT JURISDICTION PURSUANT TO 47 U.S.C.A. 1455, FCC ORDER 14-153 AND FCC DECLARATORY ORDER 20-75 (collectively the "Spectrum Act")

UPGRADE OF EXISTING TELECOMMUNICATON FACILITY

T-Mobile is successor in interest to Sprint Spectrum LP via corporate merger and now operates all former Sprint antenna facilities. T-Mobile seeks to modify this former Sprint facility so that it will provide reliable and speedy service on the T-Mobile network. T-Mobile/Sprint currently maintains a FCC licensed wireless telecommunication facility at the subject property which includes 6 panel antennas and 9 RRUs affixed to the existing 180' tall First Energy electric transmission tower at a height of 188'-4" and 2 equipment cabinets, 1 battery cabinet and appurtenances on an existing concrete pad within an existing fenced compound. T-Mobile/ Sprint proposes to upgrade the existing facility by swapping out 6 existing antennas with 6 new antennas on the existing tower, replacing 9 older RRU's with 6 new RRU's at a maximum height of 190'-5". On the ground, T-Mobile/Sprint will remove the existing Sprint equipment cabinet, battery cabinet, DC and Fiber boxes and steel mounting platform and replace same with 1 new

cabinet and 1 new battery cabinet installed directly on the existing concrete pad. Finally, 3 new cables will be installed. Since the replacement antennas are slightly taller than the ones they replace, the modification will result in a de minimis increase in antenna height of 2'-1". No additional ground disturbance is proposed as a result of the proposed equipment swap.

I. 47 U.S.C.A. Section 1455, FCC Order 14-153, released 10/21/14, and FCC Declaratory Order 20-75, released June 10, 2020 (collectively referred to as the "Spectrum Act") Exempts the T-Mobile/Sprint Facility Upgrade from the Zoning Process under the Municipal Land Use Law

The need to streamline the approval process for collocation facilities is codified in 47 U.S.C.A. Section 1455 ("Spectrum Act"), which was signed into law by President Obama on February 22, 2012 (see attached) and which now mandates that state and local governments must approve eligible facilities request for the modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station. This mandate was echoed in FCC Order 14-153 which was released on October 21, 2014.

The Spectrum Act defines "eligible facilities request" as any request for modification of an existing wireless tower or base station that involves: (i) collocation of new transmission equipment; (ii) removal of transmission equipment; or (iii) replacement of transmission equipment. The FCC defines "base station" to include a structure that currently supports or houses an antenna, transceiver, or other associated equipment that constitutes part of a base station at the time the application is filed including a building. Currently, the property is developed with an existing T-Mobile/Sprint wireless telecommunication facility on the existing 180' tall electric transmission tower. Therefore, under federal law, the proposed T-Mobile/Sprint upgrade represents the replacement of transmission equipment and clearly falls under the definition of an "eligible facilities request."

Furthermore, FCC Order 14-153 sets forth that a collocation, removal or replacement of antennas/equipment at an existing wireless facility does not result in a "substantial change" unless:

- (1) for towers/base station outside of public rights-of-way, it increases the height by more than 20 feet or 10%, whichever is greater. The T-Mobile/Sprint replacement antennas meet this criteria since they will be installed at almost the same location and as the existing antennas they replace. The antenna centerline height will only increase by 13" and the top of antenna height will change by 2'-1" which is minimal and drastically less than the 20' height increase permitted as-of-right by federal law. Therefore, the proposed T-Mobile/Sprint modification is 9 times lower than the height increase permitted under this provision and is well within compliance with this section.
- (2) for towers/buildings outside of public rights-of-way, it protrudes from the edge of the tower/base station more than twenty feet, or more than the width of the tower structure/ base station at the level of the appurtenance, whichever is greater. The T-Mobile/Sprint replacement antennas meets this criteria since the antennas will be installed in the same manner as the ones they replace and will have NO impact on the width of the existing tower.

- (3) it involves installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets. T-Mobile/Sprint is proposing to replace 1 existing equipment cabinet and 1 battery cabinet with 1 new equipment cabinet and 1 new battery cabinet on an existing concrete pad and so the number of equipment cabinets at the site will remain the same in compliance with this provision.
- (4) it entails any excavation or deployment outside the current site of the tower or base station. There is no work proposed outside of the existing lease area and no excavation is proposed in compliance with this provision.
- (5) it would defeat the existing concealment elements of the tower or base station. The existing electric transmission tower does not contain any concealment elements and the T-Mobile replacement antennas will be installed in the same manner as the existing ones in compliance with this provision.

OR

(6) it does not comply with conditions associated with the prior approval of the tower or base station unless the non-compliance is due to an increase in height, increase in width, addition of antennas/cabinets, or new excavation that does not exceed the corresponding "substantial change" thresholds. Any condition contained in a prior Board approval which requires further zoning for the modification of an existing wireless facility or collocation of antennas at the site is preempted by federal aw since said facilities qualify as "eligible facilities" under the Spectrum Act and there will be no "substantial change" as defined by the FCC. In fact, such a condition would fly in the face of the express purpose of the Spectrum Act which is to expedite the deployment of existing wireless facility upgrades and collocations on existing structures to ensure that the most advanced wireless communications technology available is being deployed for pubic use without the delay. The proposed T-Mobile facility upgrade will comply with this provision as the replacement and collocation of antennas and equipment at an existing telecommunication site is permitted and not subject to local discretionary zoning regulations per federal law.

As you can see from the submission, the proposed T-Mobile/Sprint facility upgrade will not exceed the thresholds noted above and is therefore exempt under the Spectrum Act. The Spectrum Act effectively preempts the discretionary review rights of states and municipalities that was carved out under Section 704 of the Telecommunications Act of 1996. As a result, minor facility upgrades such as the one proposed by T-Mobile/Sprint are only subject to administrative review processes and not discretionary review processes that would allow a state or local government to deny or condition an eligible facilities request.

Therefore, the proposed T-Mobile/Sprint facility upgrade should be exempt from formal zoning approval. A copy of the Spectrum Act has been attached.

II. FCC Order 14- 153, paragraph 215 ("Shot Clock Ruling") requires that the T-Mobile/Sprint Facility Upgrade proposal be acted upon within 60 days.

The FCC has decided in FCC Order No. 14-153, paragraph 215, that a 60-day period for review, including review to determine whether an application is complete, is appropriate. In addition, as set forth in paragraph 216, "because the timeframes sets an absolute limit that – in the event of failure to act – results in a deemed grant."

The intent of the Shot Clock Ruling is to bring about a speedy resolution to what are considered rather simplistic collocation facilities such as the one proposed in this application, and we respectfully request and appreciate your timely attention to this exemption request.

III. Conclusion

Based upon the legislative support cited above, we request that the Zoning Office reconsider the zoning denial issued on 11/14/22 issued with respect to the proposed T-Mobile facility upgrade.

C

Effective: February 22, 2012

United States Code Annotated <u>Currentness</u>

Title 47. Telegraphs. Telephones, and Radiotelegraphs

<u>**a Chapter 13.</u> Public Safety Communications and Electromagnetic Spectrum Auctions

<u>**a Subchapter IV.</u> Spectrum Auction Authority

→ \$ 1455. Wireless facilities deployment

(a) Facility modifications

(1) In general

Notwithstanding section 704 of the Telecommunications Act of 1996 (Public Law 104-104) or any other provision of law, a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.

(2) Eligible facilities request

For purposes of this subsection, the term "eligible facilities request" means any request for modification of an existing wireless tower or base station that involves--

- (A) collocation of new transmission equipment;
- (B) removal of transmission equipment; or
- (C) replacement of transmission equipment.
- (3) Applicability of environmental laws

Nothing in paragraph (1) shall be construed to relieve the Commission from the requirements of the National Historic Preservation Act or the National Environmental Policy Act of 1969.

(b) Federal easements and rights-of-way

(1) Grant

If an executive agency, a State, a political subdivision or agency of a State, or a person, firm, or organization applies for the grant of an easement or right-of-way to, in, over, or on a building or other property owned by the Federal Government for the right to install, construct, and maintain wireless service antenna structures and equipment and backhaul transmission equipment, the executive agency having control of the building or other property may grant to the applicant, on behalf of the Federal Government, an easement or right-of-way to perform

such installation, construction, and maintenance.

(2) Application

The Administrator of General Services shall develop a common form for applications for easements and rights-ofway under paragraph (1) for all executive agencies that shall be used by applicants with respect to the buildings or other property of each such agency.

(3) Fee

(A) In general

Notwithstanding any other provision of law, the Administrator of General Services shall establish a fee for the grant of an easement or right-of-way pursuant to paragraph (1) that is based on direct cost recovery.

(B) Exceptions

The Administrator of General Services may establish exceptions to the fee amount required under subparagraph (A)--

- (i) in consideration of the public benefit provided by a grant of an easement or right-of-way; and
- (ii) in the interest of expanding wireless and broadband coverage.

(4) Use of fees collected

Any fee amounts collected by an executive agency pursuant to paragraph (3) may be made available, as provided in appropriations Acts, to such agency to cover the costs of granting the easement or right-of-way.

(c) Master contracts for wireless facility sitings

(1) In general

Notwithstanding section 704 of the Telecommunications Act of 1996 or any other provision of law, and not later than 60 days after February 22, 2012, the Administrator of General Services shall--

- (A) develop 1 or more master contracts that shall govern the placement of wireless service antenna structures on buildings and other property owned by the Federal Government; and
- (B) in developing the master contract or contracts, standardize the treatment of the placement of wireless service antenna structures on building rooftops or facades, the placement of wireless service antenna equipment on rooftops or inside buildings, the technology used in connection with wireless service antenna structures or equipment placed on Federal buildings and other property, and any other key issues the Administrator of General Services considers appropriate.

(2) Applicability

The master contract or contracts developed by the Administrator of General Services under paragraph (1) shall

apply to all publicly accessible buildings and other property owned by the Federal Government, unless the Administrator of General Services decides that issues with respect to the siting of a wireless service antenna structure on a specific building or other property warrant nonstandard treatment of such building or other property.

(3) Application

The Administrator of General Services shall develop a common form or set of forms for wireless service antenna structure siting applications under this subsection for all executive agencies that shall be used by applicants with respect to the buildings and other property of each such agency.

(d) Executive agency defined

In this section, the term "executive agency" has the meaning given such term in section 102 of Title 40.

CREDIT(S)

(Pub.L. 112-96. Title VI. § 6409, Feb. 22, 2012, 126 Stat. 232.)

HISTORICAL AND STATUTORY NOTES

References in Text

The Telecommunications Act of 1996, referred to in subsecs. (a)(1). (c), is Pub.L. 104-104, Feb. 8, 1996, 110 Stat. 56, which in part enacted part II of subchapter II of chapter 5 of Title 47 (47 U.S.C.A. § 251 ct seq.). Section 704 of the Act amended 47 U.S.C.A. § 332 and enacted provisions set out as a note under that section. For complete classification, see Short Title set out note under 47 U.S.C.A. § 609 and Tables.

The National Historic Preservation Act, referred to in subsec. (a)(3), is Pub.L. 89-665, Oct. 15, 1966, 80 Stat. 915, as amended, which is classified generally to subchapter II of chapter 1A of Title 16, 16 U.S.C.A. § 470 et seq. For complete classification, see section 470(a) of this title and Tables.

The National Environmental Policy Act of 1969, referred to in subsec. (a)(3), is Pub.L. 91-190, Jan. 1, 1970, 83 Stat. 852, as amended, which is classified principally to chapter 55 of Title 42, 42 U.S.C.A. § 4321 et seq. For complete classification, see Tables.

47 U.S.C.A. § 1455, 47 USCA § 1455

Current through P.L. 112-207 (excluding P.L. 112-199 and 112-206) approved 12-7-12

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END OF DOCUMENT

DRIVING DIRECTIONS

FROM SPRINT PARSIPPANY OFFICE:

HEAD NORTHWEST TOWARD SYLVAN WAY. TURN LEFT TOWARD SYLVAN WAY. TURN LEFT ONTO SYLVAN WAY. TURN RIGHT ONTO DRYDEN WAY. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR U.S. 1 E AND MERGE ONTO NJ-10 E. SLIGHT RIGHT ONTO THE INTERSTATE 287 S RAMP TO MORRISTOWN, MERGE ONTO I-287 S. TAKE EXIT 21B TO MERGE ONTO I-78 W TOWARD EASTON PENNSYLVANIA. TAKE EXIT 3 FOR US-22 TOWARD NJ-122/PHILLIPSBURG/ALPHA. CONTINUE ONTO US-22 W. TURN RIGHT ONTO COUNTY ROAD 519. TURN RIGHT ONTO BELVIDERE RD. TURN LEFT ONTO GARRISON RD. DESTINATION WILL BE ON THE RIGHT.

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- 2018 INTERNATIONAL BUILDING CODE, NJ EDITION
- INTERNATIONAL MECHANICAL CODE ANSI/TIA-222 STRUCTURAL STANDARD
- NEPA 780 LIGHTNING PROTECTION CODE
- UNIFORM PLUMBING CODE NATIONAL ELECTRICAL CODE



SPRINT RETAIN CONSTRUCTION DRAWINGS

SITE ID #: NJ01221A (NY54XC668)

NJ01221A SITE NAME:

CONFIGURATION: 67E5D998E 6160

FIRST ENERGY TRANSMISSION SITE TYPE:

TOWER # JC-71HY

NJ037 DIAMOND SITE:

318 GARRISON ROAD SITE ADDRESS:

PHILLIPSBURG, NJ 08865

WARREN COUNTY

PROJECT INFORMATION

PROPERTY OWNER: 254 GARRISON ROAD PHILLIPSBURG, NJ 08865

318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

GEOGRAPHIC COORDINATES: LAT.: 40° 45' 25.5954" N (40.75711°) LONG.: 75° 08' 25.6344" W (-75.140454°)

BLOCK / LOT: BLOCK: LOT:

ZONE: JURISDICTION: TOWNSHIP OF WARREN

GPU ENERGY TELCO/FIBER: TO BE PROVIDED

SPRINT SPECTRUM REALTY COMPANY, LLC 4 SYLVAN WAY PARSIPPANY, NJ 07054

SITE ACQUISITION: TRANSCEND WIRELESS 10 INDUSTRIAL AVE., SUITE 3 MAHWAH, NJ 07430 CONTACT: MIKE KITHCART EMAIL: mkithcart@transce PHONE: (973) 626-5792

RAMAKER & ASSOCIATES, INC. 855 COMMUNITY DRIVE SAUK CITY, WI 53583 CONTACT: KEITH BOHNSACK PHONE: (608) 643-4100

CONSTRUCTION MANAGER: Michael.J.Sanzo@t-mobile.com (973) 207-0025

APPROVALS

APPROVED BY	SIGNATURE	DATE
PROJECT MANAGER:		
SITE ACQUISITION:	2-14 m	
ZONING:	· =_=_=_=	
CONSTRUCTION MANAGER:		
RF ENGINEER:		
OPERATIONS MANAGER.		
DEVELOPMENT MANAGER:		
REGULATORY:		

SCOPE OF WORK

REMOVE (6) EXISTING PANEL ANTENNAS

REMOVE (6) EXISTING RRUS REMOVE (2) EXISTING EQUIPMENT CABINETS ADD (3) PROPOSED PANEL ANTENNAS ON EXISTING MOUNTS

ADD (6) PROPOSED RRUS ON EXISTING MOUNTS
ADD (1) PROPOSED ERICSSON 6160 SITE SUPPORT CABINET

ADD (1) PROPOSED ERICSSON B160 BATTERY CABINET ADD (3) PROPOSED ERICSSON HYBRID TRUNK 6/24

SHEET INDEX

SHEET #:	SHEET TITLE:
T-1	TITLE SHEET
SP-1	SPECIFICATIONS
A-1A	OVERALL SITE PLAN
A-1B	SITE PLAN
A-2	ELEVATIONS
A-3	EQUIPMENT PLAN
A-4	ANTENNA PLANS
A-5	EQUIPMENT CABINET CONFIGURATION
A-6	EQUIPMENT SPECIFICATIONS
A-7	EQUIPMENT SPECIFICATIONS
A-8	EQUIPMENT SPECIFICATIONS
A-9	EQUIPMENT SPECIFICATIONS
A-10	RF CONFIGURATION
A-11	RF DESIGN TABLE
E-1	UTILITY DETAILS
G-1	GROUNDING NOTES
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS



4 SYLVAN WAY PARSIPPANY, NJ 07054



10 INDUSTRIAL AVE., SUITE 3 MAHWAH, NJ 07430



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hereby certify that this plan, specification, or report was prepared y me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of New Jersey.



ı			
	2	12/01/22	REVISED TO INCLUDE PARCEL MAP
I	1	05/03/22	REVISED PER LL COMMENTS
		Carry Colors	DOTAL AND THE STREET,

DATE DESCRIPTION

SSUE FINAL

DATE 05/25/2022

NJ01221A (NY54XC668)

PROJECT INFORMATION: 318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

TITLE SHEET

SCALE: NONE

PROJECT 55895 T-1

GENERAL NOTES:

- THE PROPOSED INSTALLATION WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.

 THE PROPOSED INSTALLATION IS UNMANNED AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED)

 OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY SPRINT TECHNICIANS.
- NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL.
- OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
- ALL REFERENCES TO SPECIFIC STANDARDS FOR THIS PROPOSAL ARE UNDERSTOOD TO BE THE LATEST VERSION.

 THE TENDERED MUST UNDERGO A SITE VISIT TO CAREFULLY EXAMINE AND UNDERSTAND THE SCOPE OF THE WORK REQUIRED BEFORE BID SUBMISSION, NO COMPENSATION IN ANY FORM WILL BE PAID FOR EXPENSES RESULTING FROM FAILURE TO DO SO.
- IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONSTRUCTION MANAGER.
- CONTRACTOR IS RESPONSIBLE FOR FIELD MEASUREMENTS TO CONFIRM LENGTHS OF CABLE TRAYS, ELECTRICAL LINES, AND ANTENNA 10. ROUTING OF ALL CONDUITS, CABLES, CABLE TRAYS, ETC. IS INDICATED AT PROPOSED LOCATIONS ONLY. CONFIRM THE EXACT ROUTING
- WITH THE ON-SITE CONSTRUCTION MANAGER PRIOR TO THE START OF WORK.

 11. ALL DAMAGE OR OPENING UP OF THE EXISTING STRUCTURE MUST BE MADE GOOD TO THE PRE-CONSTRUCTION CONDITION OR BETTER.

 12. INSPECTION OF COMPLETED WORK IS REQUIRED BEFORE COVERING UP. PROVIDE A MINIMUM OF 72 HOURS NOTICE TO CONSULTANT.
- 13. REMOVE AND CLEAN UP ANY DEBRIS OR MATERIAL FROM THE SITE THROUGHOUT THE DURATION OF THE CONTRACT ON A DAILY BASIS AND UPON COMPLETION OF THE WORK AS DIRECTED BY THE CONSTRUCTION MANAGER.
- 14. OBTAIN AND PAY FOR ALL ELECTRICAL PERMITS AND INSPECTIONS REQUIRED FOR COMPLETION OF WORK AND ACCEPTANCE. PROVIDED CERTIFICATES TO THE CONSTRUCTION MANAGER VERIFYING THAT THE WORK CONFORMS TO THE REQUIREMENTS OF ALL CODES AND AUTHORITIES HAVING JURISDICTION.
- 15. PROVIDE SPRINT WITH A WRITTEN WARRANTY, EFFECTIVE FOR ONE YEAR AFTER DATE OF ACCEPTANCE. FOR THE COMPLETE
- INSTALLATION REPAIR OR REPLACE ANY DEFECTS ARISING DURING THIS PERIOD AT NO EXTRA COST TO SPRINT.

 16. NO DEVIATIONS FROM DESIGN SHOWN ON THESE DRAWINGS IS ALLOWED WITHOUT WRITTEN APPROVAL FROM THE CONSULTANT. FAILURE TO OBSERVE THIS RULE MAY RESULT IN CONTRACTOR CORRECTING THE INSTALLATION AT THEIR EXPENSE.
- 17. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND NATIONAL CODES, REGULATIONS AND SAFETY REGULATIONS, ALL OSHA
- REGULATIONS, ALL PUBLIC AND MUNICIPAL AUTHORITIES, AND ANY UTILITY COMPANIES' REGULATIONS AND DIRECTIVES.

 18. THE DRAWINGS AND SPECIFICATIONS ARE A GENERAL DIRECTIVE FOR THE SCOPE OF WORK. EXACT DIMENSIONS AND LOCATIONS MAY CHANGE IN THE FIELD. THE CONTRACTOR IS TO VERIFY THE DIMENSIONS AND LOCATIONS AND REPORT ANY AND ALL DISCREPANCIES TO REPRESENTATIVE. ANY MINOR ERRORS AND OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS DO NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- 19. VERIFICATION THAT EXISTING BUILDING CAN SUPPORT THE PROPOSED ANTENNA, COAX AND ADDITIONAL EQUIPMENT LOADING IS TO BE
- 20. ANTENNA AZIMUTHS SHOWN ON THESE DRAWINGS ARE BASED ON TRUE NORTH. ALL AZIMUTHS MUST BE VERIFIED WITH THE CORRECT SMR PRIOR TO CONSTRUCTION

EGEND AND SYMBOLS:	
CHAIN LINK FENCE	-0-3-3-3-3-3-0-
WOOD FENCE	-0-0-0-0-0-0-0-0
EXISTING ELECTRICAL	—— Ex —— Ex ——
PROPOSED ELECTRICAL	—_E—_E—
XISTING FIBER	FO ₄
PROPOSED FIBER	— го — го —
XISTING TELCO	—т,—т,—
PROPOSED TELCO	
EXISTING OVERHEAD ELECTRIC	OHEX
PROPOSED OVERHEAD ELECTRIC	
XISTING OVERHEAD FIBER	- OHFOX - OHFOX -
PROPOSED OVERHEAD FIBER	— онго — онго —
XISTING OVERHEAD TELCO	—— ОНТx —— ОНТx ——
PROPOSED OVERHEAD TELCO	— онт — онт —
PARCEL BOUNDARY	— — » — »— »—
CENTERLINE	

ELEVATION

EXISTING / PROPOSED ELEVATION



ABBRE	VIATIONS:		INSULATION INTERIOR
	Secretarion des contectodos nos acontreses o travers	JT	JOINT
AFS	ABOVE FINISHED SLAB		LAMINATED
AGL	ABOVE GRADE LEVEL		LINEAL FOOT
ARL	ABOVE ROOF LEVEL	MANUF	MANUFACTURER
ALUM	ALUMINUM	MAX	MAXIMUM
AB	ANCHOR BOLT	MECH	MECHANICAL
L	ANGLE	MH	MANHOLE
ARCH	ARCHITECTURAL	MM	MILLIMETER
BTS	BASE TRANSMISSION SYSTEM	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BM	BEAM	MPH	MILES PER HOUR
BOT	BOTTOM	MTL	METAL
B.O.	BOTTOM OF	NIC	NOT IN CONTRACT
BOC	BOTTOM OF CONCRETE		
BOS	BOTTOM OF STEEL	NOM	NOMINAL
CJ	CONTROL JOINT	NTS	NOT TO SCALE
•	CENTER LINE	OC	ON CENTER
CLG	CEILING	OD	OUTSIDE DIAMETER
CLR	CLEAR	OH	OVERHEAD
CMU	CONCRETE MASONRY UNIT	OPNG	OPENING
COL	COLUMN	OPP	OPPOSITE
CONC	CONCRETE	PCS	PERSONAL COMMUNICATION SYSTEM
CONST	CONSTRUCTION	. የ	PLATE
CONT	CONTINUOUS	PR	PAIR
CTR	CENTER	PSI	POUNDS PER SQUARE INCH
DIA/Ø	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DTL	DETAIL	PT	PRESSURE TREATED
		RAD	RADIUS
(E)	EXISTING	RD	ROOF DRAIN
EA	EACH SYNAMOUNT	REINF	REINFORCED/REINFORCING
EJ	EXPANSION JOINT	REQ'D	REQUIRED
ELEC	ELECTRIC/ELECTRICAL	RM	ROOM
EL	ELEVATION	R/W	RIGHT OF WAY
EQ	EQUAL	SCHED	SCHEDULE
EW	EACH WAY	SECT	SECTION
EXP	EXPANSION	SF	SQUARE FOOT
EXT	EXTERIOR	SIM	SIMILAR
FD	FLOOR DRAIN		SQUARE FOOT
FHFB	FLEXI RRH 4-PIPE 1900	SS	STAINLESS STEEL
FIN	FINISH	STD	STANDARD
FIN	FLR FINISH FLOOR	STL	STEEL
FLR	FLOOR	STRUC	STRUCTURAL
FSMF	FLEXI MULTIRADIO SYSTEM MODULE	TEMP	TEMPORARY
FTG	FOOTING	THK	THICK
GA	GAUGE	TMA	TOWER MOUNTED ANTENNA
GALV	GALVANIZED	T.O.	TOP OF
GYP	GYPSUM	TOS	TOP OF STEEL
GB	GYPSUM BOARD	TOC	TOP OF STEEL TOP OF CONCRETE
HM	HOLLOW METAL		
HOR	HORIZONTAL	TYP	TYPICAL
HR	HOUR	UNO	UNLESS NOTED OTHERWISE
HT	HEIGHT	VERT	VERTICAL
	HEATING VENTILATION AIR CONDITIONING	W	WITH
HVAC	HEATING VENTILATION AIR CONDITIONING	WWM.	WELDED WIRE MESH



4 SYLVAN WAY PARSIPPANY, NJ 07054



10 INDUSTRIAL AVE., SUITE 3 **MAHWAH, NJ 07430**



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hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly lucensed Professional Engineer under the laws of the State of New Jersey.

James R. Skouronski

DOCUMENT MUST CONTAIN ORIGINAL EMBOSSED SEAL TO BE VALID

> SIONAL H.J. PROFESSIONAL ENGINEER #45690 COMPANY CERTIFICATE OF AUTHORIZATION #24G428109400, EXP. 04/30/2024

2 12/01/22 REVISED TO INCLUDE PARCEL MAP 05/03/22 REVISED PER LL COMMENTS 0 05/25/22 ISSUED AS FINAL

MARK DATE DESCRIPTION

ISSUE FINAL ROJECT TITLE:

DATE | 05/25/2022

NJ01221A

(NY54XC668) 318 GARRISON ROAD PHILLIPSBURG, NJ 08865

WARREN COUNTY

SPECIFICATIONS

SCALE: NONE

55895 PROJECT SP-1 SHEET





4 SYLVAN WAY PARSIPPANY, NJ 07054



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6.11.1.15.1

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James R. Skonro

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N.J. PROFESSIONAL ENGINEER #45690 COMPANY CERTIFICATE OF AUTHORIZATION

2 12/31/22 REVISED TO INCLUDE PARCEL MAP
1 05/03/22 REVISED PER LL COMMENTS
0 05/25/22 ISSUED AS FINAL

MARK DATE DESCRIPTION
ISSUE FINAL

DATE ISSUED 05/25/2022

OJECT TITLE:

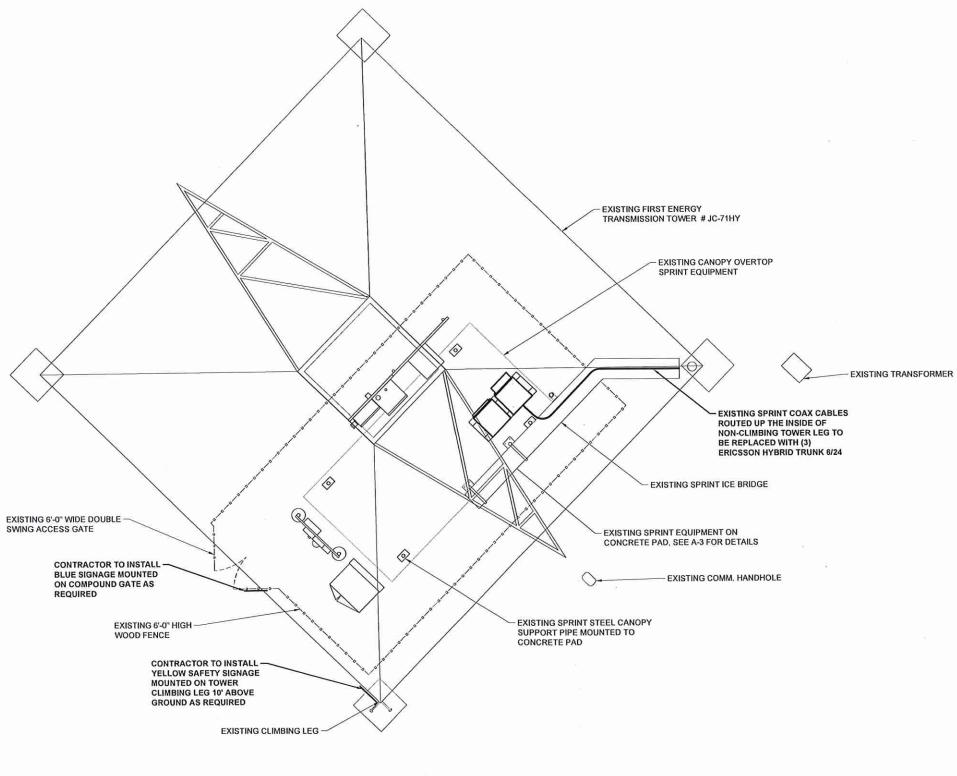
NJ01221A (NY54XC668)

PROJECT INFORMATION: 318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

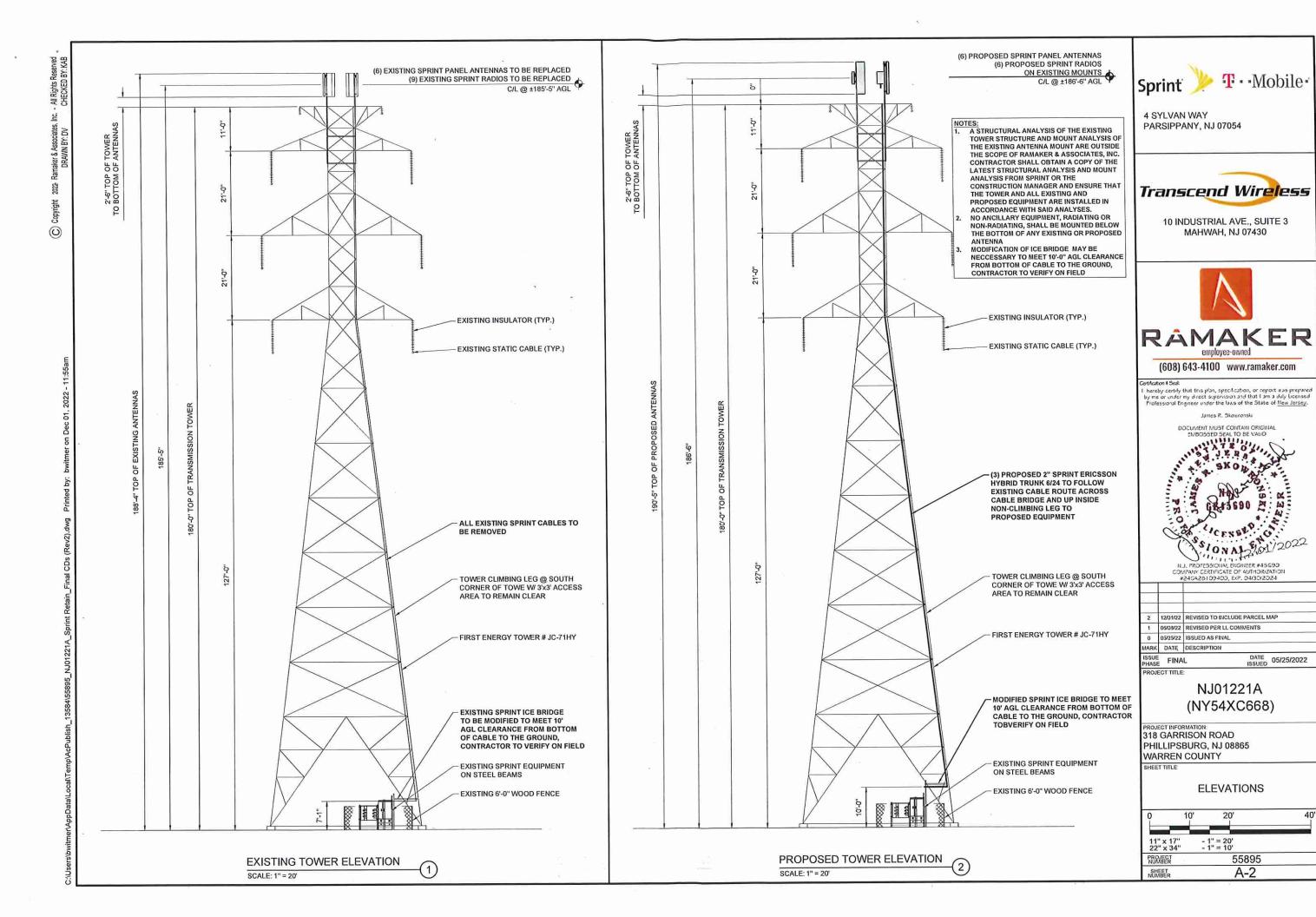
EET TITLE:

SITE PLAN

0	3.75	7.5'	15
11" >	17" 34"	- 1" = 7.5' - 1" = 3.75'	
PROJE	SOUTH CO.	55895	
SHEE	T R	A-1B	



SITE PLAN
SCALE: 1" = 7.5'



NORTH





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HJ. PROFESSIONAL ENGINEER #45690 COMPANY CERTIFICATE OF AUTHORIZATION #246428105400, ERP. 04/30/2024

2 12/31/22 REVISED TO INCLUDE PARCEL MAP 1 05/03/22 REVISED PER LL COMMENTS 0 05/25/22 ISSUED AS FINAL

MARK DATE DESCRIPTION
ISSUE FINAL

DATE 05/25/2022

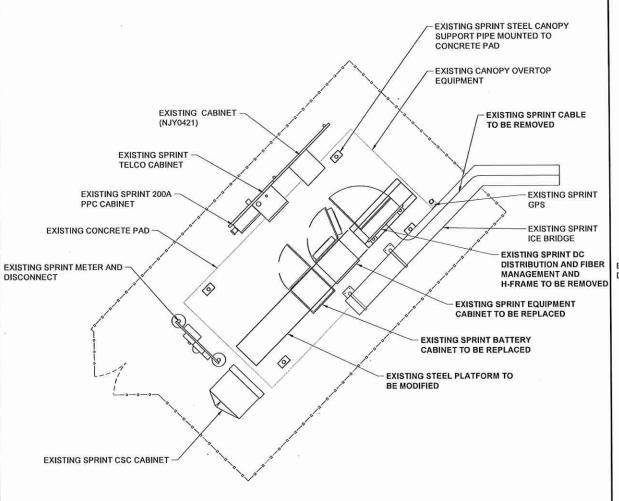
NJ01221A (NY54XC668)

PROJECT INFORMATION: 318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

SHEET TITLE:

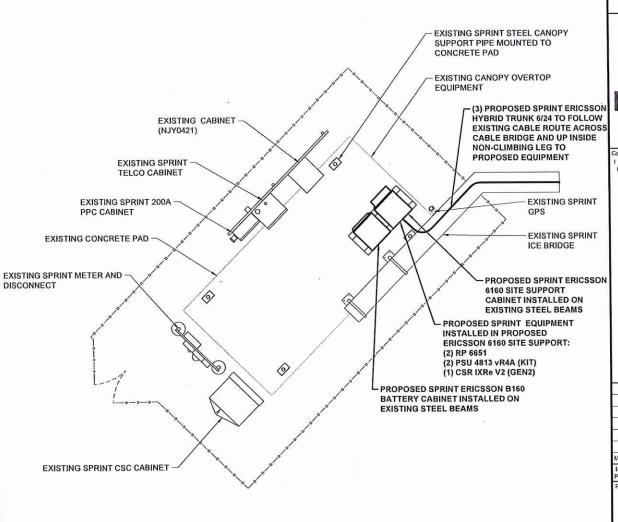
EQUIPMENT PLAN

0 3.75' 7.5' 15'
11"×17" -1" = 7.5'
22"×34" -1" = 3.75'
PROJECT S5895
SHEET NUMBER A-3



EXISTING EQUIPMENT PLAN

SCALE: 1" = 7.5'



PROPOSED EQUIPMENT PLAN

SCALE: 1" = 7.5'

NORTH

NOTE:
A STRUCTURAL ANALYSIS OF THE EXISTING TOWER STRUCTURE AND
MOUNT ANALYSIS OF THE EXISTING ANTENNA MOUNT ARE OUTSIDE
THE SCOPE OF RAMAKER & ASSOCIATES, INC. CONTRACTOR SHALL
OBTAIN A COPY OF THE LATEST STRUCTURAL ANALYSIS AND MOUNT ANALYSIS FROM SPRINT OR THE CONSTRUCTION MANAGER AND ENSURE THAT THE TOWER AND ALL EXISTING AND PROPOSED EQUIPMENT ARE INSTALLED IN ACCORDANCE WITH SAID ANALYSES.





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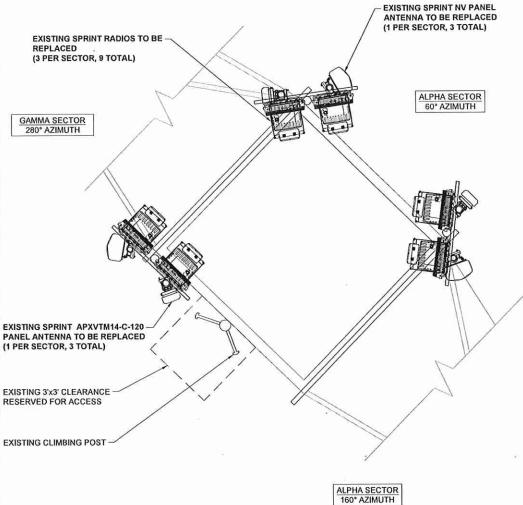
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PROJECT INFORMATION: 318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

ANTENNA LAYOUTS

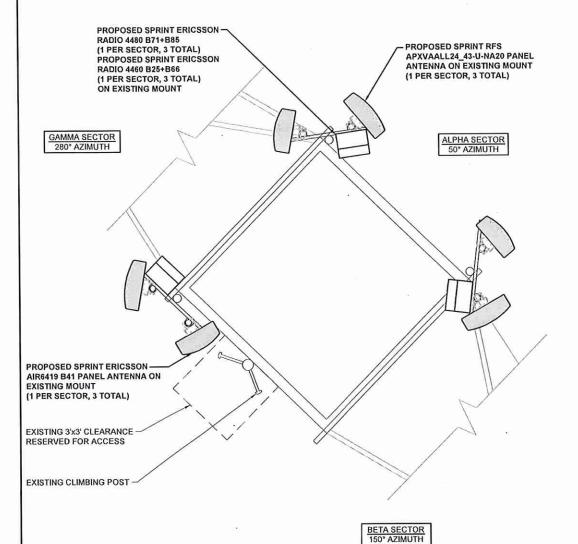
SCALE: NONE

55895 PROJECT NUMBER A-4



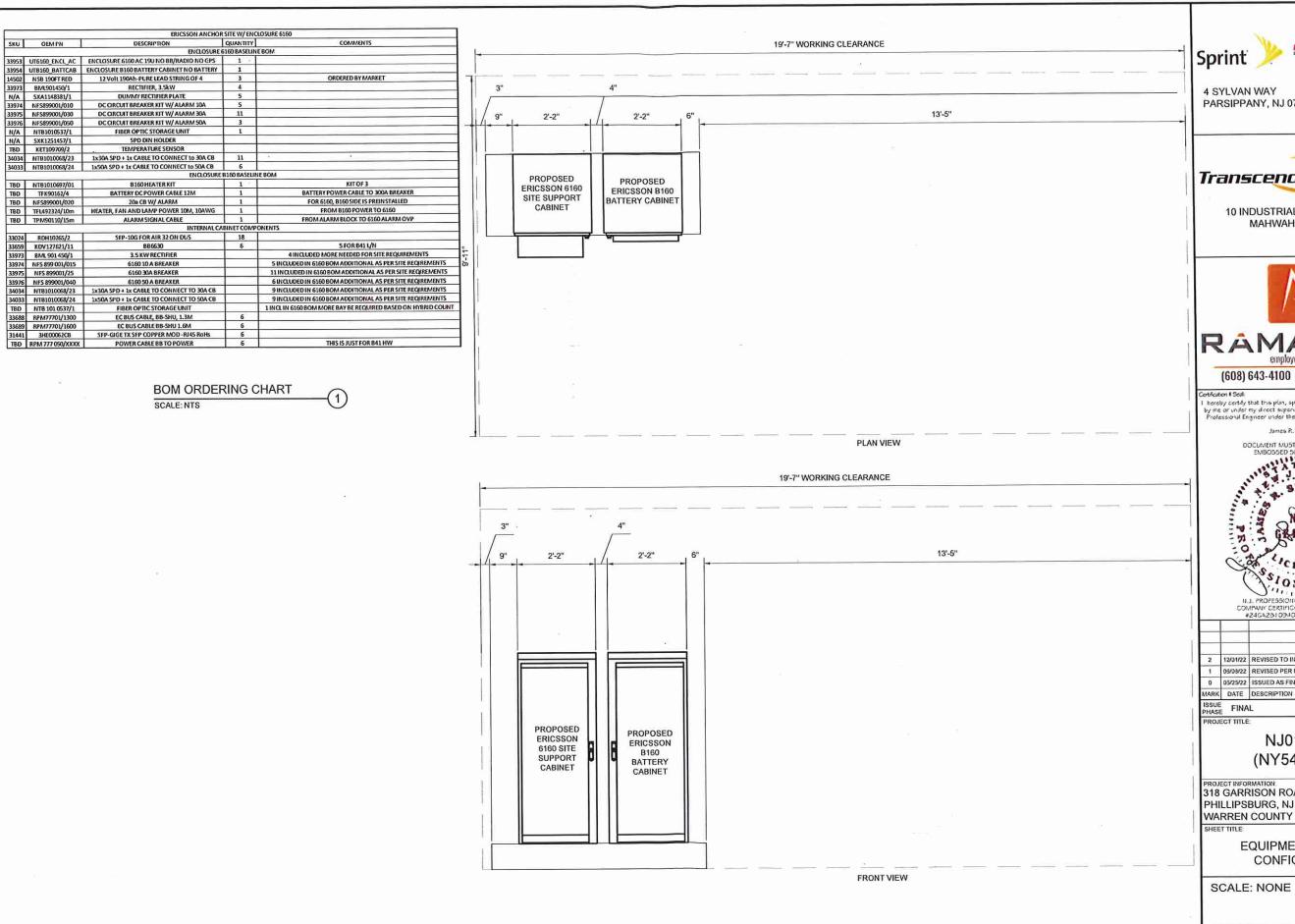
EXISTING ANTENNA PLAN

SCALE: NTS



EXISTING BETA SECTOR PLAN SCALE: NTS





EQUIPMENT CABINET CONFIGURATION

SCALE: NTS

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James R. Skowronski

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DATE ISSUED 05/25/2022

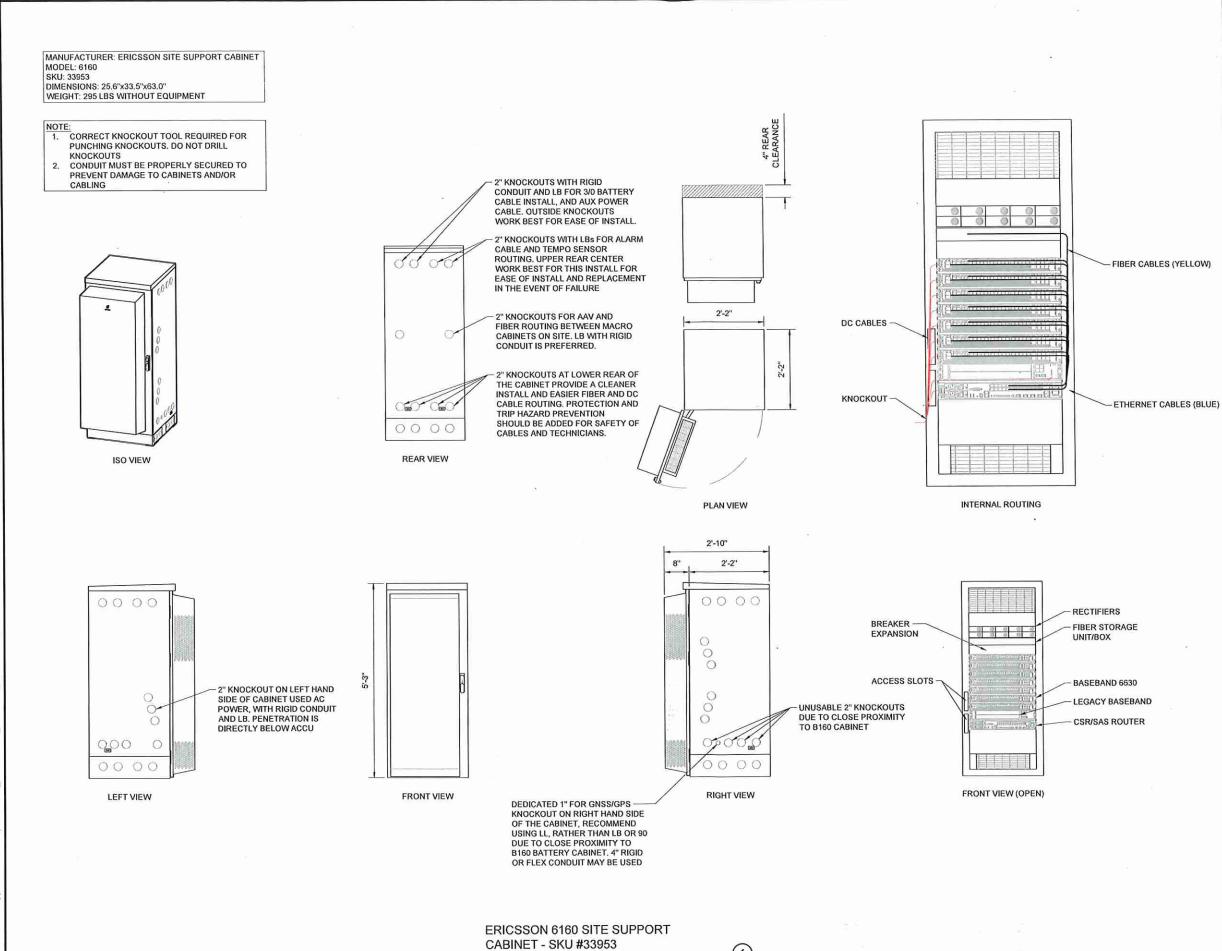
NJ01221A (NY54XC668)

318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

EQUIPMENT CABINET CONFIGURATION

SCALE: NONE

55895 PROJECT A-5 SHEET



SCALE: NTS

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PROJECT NUMBER

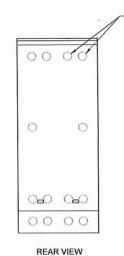
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55895

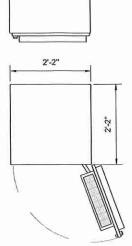
A-6

MANUFACTURER: ERICSSON BATTERY CABINET MODEL: B160 SKU: 33954 DIMENSIONS: 25.6"x33.5"x63.0" WEIGHT: 295 LBS WITHOUT EQUIPMENT

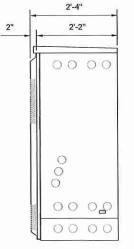
- NOTE:
 1. CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL
- CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND/OR

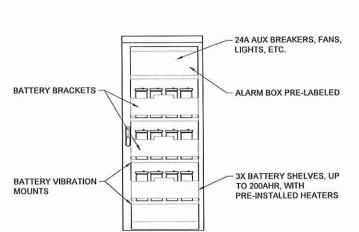


- 2" KNOCKOUTS WITH LBs FOR ALARM CABLE AND TEMPO SENSOR ROUTING. UPPER REAR CENTER WORK BEST FOR THIS INSTALL FOR EASE OF INSTALL AND REPLACEMENT IN THE EVENT OF FAILURE

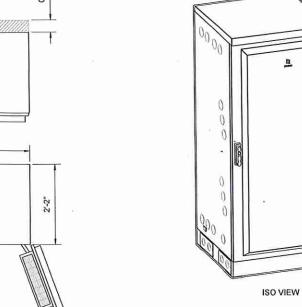


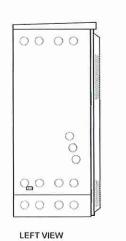


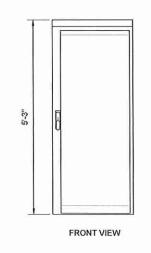


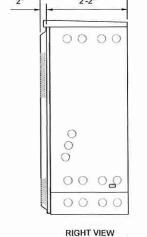


FRONT VIEW (OPEN)









ERICSSON B160 BATTERY CABINET -SKU #33954 SCALE: NTS





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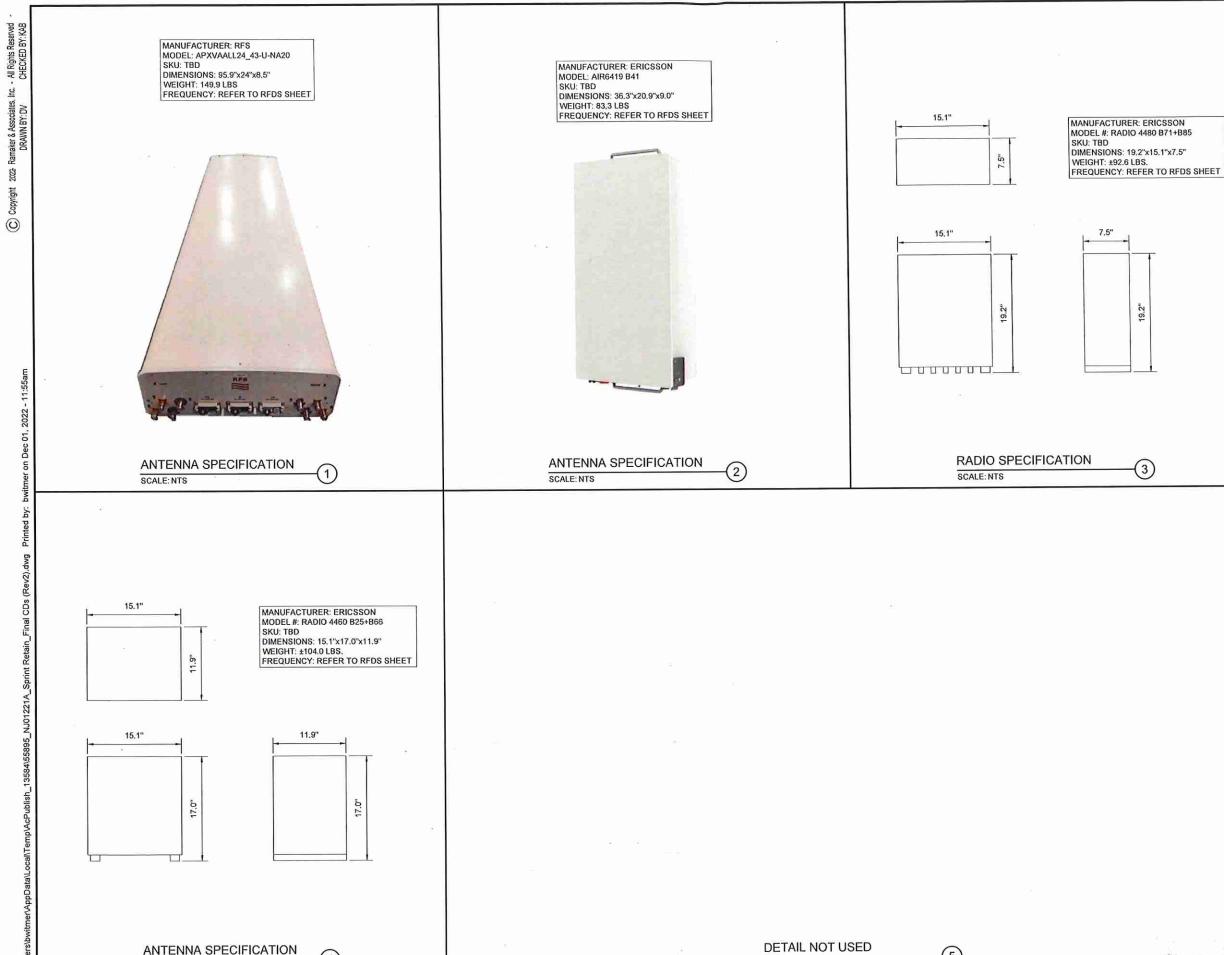
NJ01221A (NY54XC668)

PROJECT INFORMATION: 318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

EQUIPMENT SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER 55895 SHEET A-7





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NJ01221A (NY54XC668)

PROJECT INFORMATION: 318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

EQUIPMENT SPECIFICATIONS

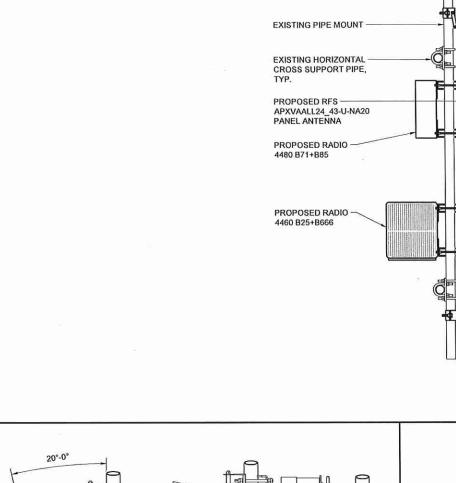
SCALE: NONE

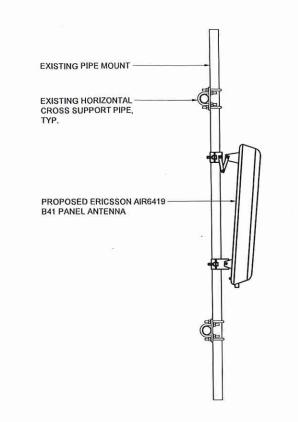
55895 PROJECT NUMBER A-8 SHEET

SCALE: NTS

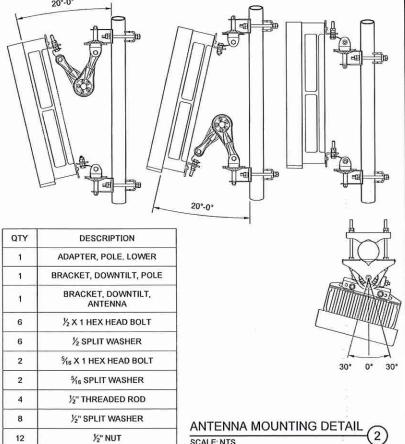
DETAIL NOT USED SCALE: NTS







ANTENNA & RRU MOUNTING DETAILS SCALE: NTS



SCALE: NTS

1/2" NUT

DETAIL NOT USED SCALE: NTS

3

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NJ01221A

PROJECT INFORMATION: 318 GARRISON ROAD PHILLIPSBURG, NJ 08865

WARREN COUNTY

EQUIPMENT SPECIFICATIONS

(NY54XC668)

SCALE: NONE

PROJECT 55895 SHEET A-9

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NJ01221A (NY54XC668)

PROJECT INFORMATION: 318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

RF CONFIGURATION

SCALE: NONE

PROJECT NUMBER 55895 A-10

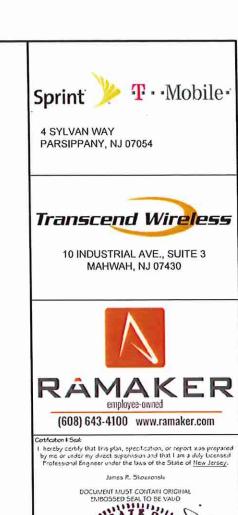
PLUMBING DIAGRAM SCALE: NTS

Notes:

RF DESIGN										
SECTOR	BAND	ANTENNA MODEL	ANTENNA RAD CENTER	AZIMUTH	ANTENNA DOWN TILT		RADIOS	TMAS / DIPLEXERS / SECTOR EQUIPMENT	CABLE FEED LINES	CABLE LENGTH
					ELECTRICAL DT	MECHANICAL DT				
ALPHA	N600 / L700 / L600 / L2100 / L1900	(P) APXVAALL24_43-U-NA20	186'-6"	50°	8°/8°/4°/4°	0.	(P) (1) RADIO 4480 B71 + B85	*	(P) (1) HYBRID TRUNK 6/24	±225'
							(P) (1) RADIO 4460 B25 + B66			
	L2500 / N2500	(P) AIR6419 B41	186'-6"	50°	4°/4°	0°	-	~		
вета	N600 / L700 / L600 / L2100 / L1900	(P) APXVAALL24_43-U-NA20	186'-6"	150°	8°/8°/4°/4°	0,	(P) (1) RADIO 4480 B71 + B85	÷	– (P) (1) HYBRID TRUNK 6/24	±225'
							(P) (1) RADIO 4460 B25 + B66			
	L2500 / N2500	(P) AIR6419 B41	186'-6"	150°	4°/4°	0,	2	·		
GAMMA	N600 / L700 / L600 / L2100 / L1900	(P) APXVAALL24_43-U-NA20	186'-6"	280°	8*/8*/4*/4*	0°	(P) (1) RADIO 4480 B71 + B85	(H)	— (P) (1) HYBRID TRUNK 6/24	±225'
							(P) (1) RADIO 4460 B25 + B66			
	L2500 / N2500	(P) AIR6419 B41	186'-6"	280°	4°14°	0*	-	:=		

RF DESIGN TABLE

SCALE: NTS



N.J. PROFESSIONAL ENGINEER #45690
COMPANY CERTIFICATE OF AUTHORIZATION
#24GA28109400, EXP. 04/30/2024

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PROJECT TITLE:

NJ01221A

(NY54XC668)

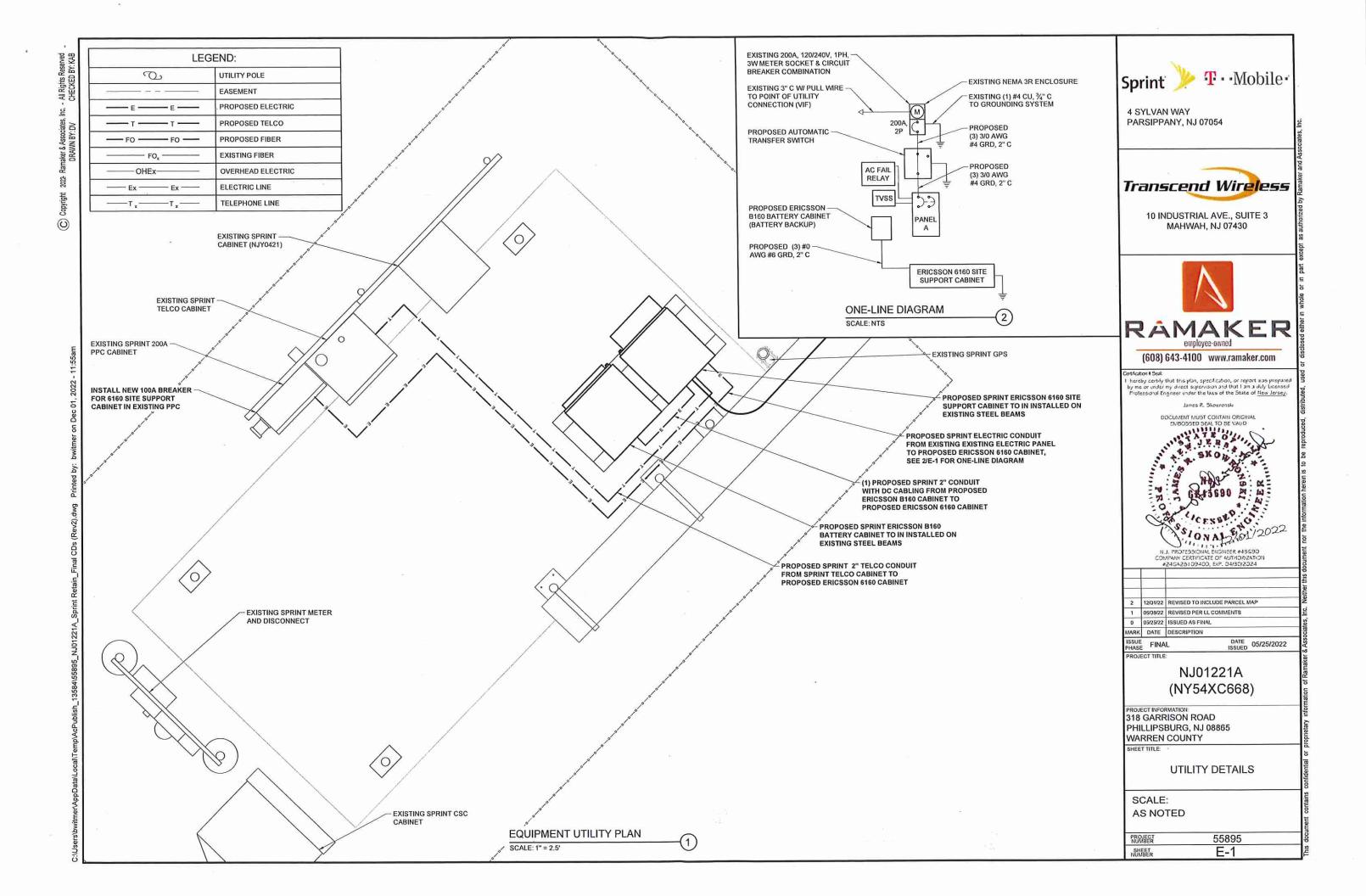
PROJECT INFORMATION: 318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

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RF DESIGN TABLE

SCALE: NONE

RRAGER 55895 NUMBER A-11



0

GROUNDING SPECIFICATIONS:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- 2. ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- GROUNDING CONNECTIONS SHALL BE EXOTHERMIC (CADWELD) TO ANTENNA MASTS, FENCE POSTS, AND GROUND RODS UNLESS NOTED
 OTHERWISE. CLEAN SURFACES TO SHINE METAL. WHERE GROUND WIRES ARE CADWELD TO GALVANIZED SURFACES. SPRAY CADWELD
 WITH GALVANIZING PAINT. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION/MECHANICAL FITTINGS.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 8" RADIUS.
- 5. WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN "PVC SLEEVE, FROM 1'-0" MIN. ABOVE GRADE AND SEAL TOP WITH SILICONE MATERIAL. GROUNDING CONDUCTORS SHALL BE RUN THROUGH PVC SLEEVE WHERE ROUTED THROUGH WALLS, FLOORS, AND CEILING AND/OR ABOVE EXTERIOR GRADE. ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
- 5. SURFACE CONNECTIONS SHALL BE MADE TO BARE METAL. PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- 7. GROUNDING WIRE CONNECTIONS SHALL BE 3-CRIMP C-TAP COMPRESSION TYPE. SPLIT BOLTS ARE NOT ACCEPTABLE.
- GROUND RODS SHALL BE COPPER CLAD STEEL 5/8" x10' SPACE NOT LESS THAN 10' O.C.
- 9. CONNECTORS SHALL BE CRIMPED USING HYDRAULIC CRIMPING TOOLS.
- 10. COPPER BUSES SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT APPLIED. NO FINGERPRINTS OR DISCOLORED
- 11. COPPER WILL BE PERMITTED.
- 12. HARDWARE (I.E. NUTS, BOLTS, WASHERS, ETC.) IS TO BE STAINLESS STEEL.
- 13. THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDED USING LOCKNUTS AND BONDING NUTS ON CONDUITS AND PROPERLY BONDED GROUND CONDUCTORS, RECEPTACLES AND EQUIPMENT BRANCH CIRCUITS SHALL BE GROUNDED WITH A FULL SIZED EQUIPMENT GROUNDING CONDUCTOR RUN IN THE CIRCUIT'S CONDUIT.
- 14. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUS IN THE PANEL BOARD.
- 15. GROUND BARS (SECTOR, COLLECTOR, MASTER) SHALL BE MIN. BARE "x 4" COPPER AND LARGE ENOUGH TO ACCOMMODATE THE REQUIRED NUMBER OF GROUND CONNECTIONS. THE HARDWARE SECURING THE MGB SHALL ELECTRICALLY INSULATE THE MIGB FROM ANY STRUCTURE TO WHICH IT IS FASTENED.
- 16. APPLY THOMAS & BETSS KOPR-SHIELD OR APPROVED EQUIVALENT PRIOR TO MAKING MECHANICAL CONNECTIONS.
- 17. SHALL BE MADE WITH STAINLESS STEEL BOLTS, NUTS AND LOCK WASHERS "DIAMETER MIN. WHERE GALVANIZING IS REMOVED FROM METAL IT SHALL BE PAINTED OR TOUCHED UP WITH 'GALVONOX' OR EQUAL.
- 18. ALL TERMINATIONS AT EQUIPMENT ENCLOSURES, PANELS, FRAMES OF EQUIPMENT AND WHERE EXPOSED FOR GROUNDING
- 19. CONDUCTOR TERMINATION SHALL BE PERFORMED UTILIZING TWO HOLE BOLTED TONGUE COMPRESSION TYPE WITH STAINLESS STEEL
- ALL CLAMPS AND SUPPORTS USED TO SUPPORT THE GROUNDING SYSTEM CONDUCTOR AND PVC CONDUITS SHALL BE PVC TYPE (NON-CONDUCTIVE). DO NOT USE METAL BRACKETS OR SUPPORTS WHICH WOULD FORM A COMPLETE RING AROUND ANY GROUNDING CONDUCTOR.
- 21. THE CONTRACTOR SHALL ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT RESISTANCE TO EARTH DOES NOT EXCEED 5.0 OHMS. PROVIDE A COPY OF TESTING REPORT, INCLUDING THE METHOD AND INSTRUMENTS USED TO VERIFY RESISTANCE TO SPRINT REPRESENTATIVE.
- 22. COAX CABLE SHALL BE GROUNDED AT ANTENNA LEVEL WITHIN 5' OF ANTENNA, COAX WILL ADDITIONALLY BE GROUNDED AT THE BASE OF THE TOWER 18" BEFORE THE CABLE REACHES A HORIZONTAL PLANE. IF EQUIPMENT CABINET IS MORE THAN 15' FROM THE TOWER AN ADDITIONAL GROUND KIT WILL BE ADDED 24" BEFORE CABLE ENTERS CABINET.
- 23. ALL COAX GROUND KITS WILL BE ANDREW 'COMPACT SURE GROUND' OR APPROVED EQUIVALENT.
- 24. VERIFY THE GROUNDING CONTINUITY BETWEEN THE TOWER BASE AND THE NEW SPRINT CABINET GROUND BAR. CONTRACTOR SHALL ENSURE THAT ALL METALLIC OBJECTS WITHIN 6' FROM CABINET HAVE GROUNDING CONTINUITY. THE CONTRACTOR SHALL CORRECT ANY DEFECTS BE ADDING GROUNDING CONDUCTOR TO ENSURE CONTINUITY. 22. GROUNDING CONDUCTORS SHALL BE COPPER ONLY. EITHER SOLID OR STRANDED CONDUCTORS ARE PERMITTED. ALL EXTERNAL BURIED CONDUCTORS MUST BE BARE. EQUIPMENT GROUND LEADS IN CABLE TRAYS MUST BE GREEN INSULATED.23. CONTRACTOR TO PROVIDE GROUND WIRES, BARS, AND CONNECTIONS AS SHOWN ON GROUNDING RISER DIAGRAM.
- 25. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS PER NEC AND SPRINT
- 26. CONNECTIONS TO THE GROUND BAR SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUSS ARE PERMITTED.
- 27. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH NEC, SHALL BE FURNISHED AND INSTALLED WITH POWER CIRCUITS TO BTS EQUIPMENT.
- 28. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- 29. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. IN ALL CASES, BENDS SHALL BE MADE WITH A MINIMUM BEND RADIUS OF 8 INCHES.
- 30. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH NEC.
- 31. GROUND ALL RF EQUIPMENT INCLUDING BUT NOT LIMITED TO COAX, DIPLEXERS, SURGE ARRESTORS, TMA'S, ANTENNAS, AND ANTENNA MAST PER NEC AND SPRINT.

GENERAL NOTES

 OBTAIN PERMITS AND PAY FEES RELATED TO ELECTRICAL WORK PERFORMED ON THIS PROJECT. DELIVER COPIES OF ALL PERMITS TO SPRINT.

- SCHEDULE AND ATTEND INSPECTIONS RELATED TO ELECTRICAL WORK REQUIRED BY JURISDICTION HAVING AUTHORITY. CORRECT AND PAY FOR ANY WORK REQUIRED TO PASS ANY FAILED INSPECTION.
- 3. REDLINED AS-BUILTS ARE TO BE DELIVERED TO SPRINT REPRESENTATIVE.
- 4. PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS IN THREE-RING BINDER.
- FURNISH AND INSTALL THE COMPLETE ELECTRICAL SYSTEM, TELCO SYSTEM, AND THE GROUNDING SYSTEM AS SHOWN ON THESE DRAWINGS
- ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND LOCAL ORDINANCES, INSTALLED IN A NEAT MANNER AND SHALL BE SUBJECT TO APPROVAL BY SPRINT.
- . CONDUCT A PRE-CONSTRUCTION SITE VISIT AND VERIFY EXISTING SITE CONDITIONS AFFECTING THIS WORK. REPORT ANY OMISSIONS OR DISCREPANCIES FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION.
- 8. PROTECT ADJACENT STRUCTURES AND FINISHES FROM DAMAGE, REPAIR TO ORIGINAL CONDITION ANY DAMAGED AREA.
- 9. REMOVE DEBRIS ON A DAILY BASIS. DEBRIS NOT REMOVED IN A TIMELY FASHION WILL BE REMOVED BY OTHERS AND THE RESPONSIBLE SUBCONTRACTOR SHALL BE CHARGED ACCORDINGLY. REMOVAL OF DEBRIS SHALL BE COORDINATED WITH THE SITE OWNERS REPRESENTATIVE. DEBRIS SHALL BE REMOVED FROM THE PROPERTY AND DISPOSED OF LEGALLY. USE OF THE PROPERTY'S DUMPSTER IS PROHIBITED.
- 10. CONTRACTOR TO CONFIRM AVAILABLE CAPACITY AT EXISTING UTILITY PEDESTAL AND ADVISE ENGINEER OF SERVICE SIZE AND FAULT CURRENT LEVEL.
- 11. IF PEDESTAL DOES NOT HAVE ADEQUATE CAPACITY, CONTRACTOR TO SUBMIT COST QUOTATION TO UPGRADE. UPON APPROVAL OF SUBMITTED COST QUOTATION, THE CONTRACTOR SHALL PROVIDE NEW SERVICE AND/OR UPGRADE SERVICE. FEEDERS AND EQUIPMENT/ELECTRODE GROUNDING CONDUCTORS SIZE ACCORDINGLY.
- 12. CONTRACTOR SHALL VERIFY SEPARATION DIMENSION BETWEEN POWER COMPANY ELECTRICAL CONDUITS AND LP GAS PIPES AS PER UTILITY COMPANY, LOCAL CODES, NEC. NFPA, AND GAS TANK MANUFACTURER'S SPECIFICATION.
- 13. CONTRACTOR SHALL VERIFY THAT THE TOTAL NUMBER OF SERVICE ENTRANCE DISCONNECTS IN THE EXISTING UTILITY COMPANY PEDESTAL MUST NOT EXCEED SIX. IF THE NEW SERVICE ADDED EXCEEDS THIS VALUE, CONTRACTOR MUST COORDINATE WITH THE UTILITY COMPANY AND AUTHORITY HAVING JURISDICTION. THE RUNNING OF AN ADDITIONAL EXCLUSIVE AND DEDICATED SERVICE LATERAL SET FOR THE NEW LOAD ADDED TO THE COMPOUND AS PER NEC ARTICLE 230-2(B).
- 14. THE EQUIPMENT/PROTECTIONS MUST BE RATED FOR STANDARD AIC RATE HIGHER THAN INCOMING EQUIPMENT AND/OR UTILITY COMPANY AIC RATE.



4 SYLVAN WAY PARSIPPANY, NJ 07054



10 INDUSTRIAL AVE., SUITE 3 MAHWAH, NJ 07430



employee-owned
(608) 643-4100 www.ramaker.com

Certification # Seal:

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>New Jersey</u>.

James R. Skonronsk



II.J. PROFESSIONAL ENGINEER #45690 COMPANY CERTIFICATE OF AUTHORIZATION #24GA28109400, EXP. 04/30/2024

2 12/31/22 REVISED TO INCLUDE PARCEL MAP
1 08/08/22 REVISED PER LL COMMENTS
0 05/25/22 ISSUED AS FINAL
MARK DATE DESCRIPTION

ISSUE FINAL DATE 1SSUED 05/25/2022

PROJECT TITLE:

NJ01221A (NY54XC668)

PROJECT-INFORMATION: 318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

SHEET TITLE:

GROUNDING NOTES

SCALE: NONE

PROMEET 55895



TYPE PT (PARALLEL PARALLEL THROUGH CONNECTION OF HORIZONTAL CABLES



TYPE V5 (VERT. STEEL

TYPE GY

FROM ANTENNA-

JUMPER REQUIRED

AND LARGER, TYP.

ONLY WHEN 11/2"

APPROVED -WEATHERPROOFING

#2 AWG BTCW

FROM ANTENNA-

FRAME, SUPPORT GROUND WIRE AS

KIT, TYP.

THROUGH CABLE TO

SIDE OF GROUND

GROUNDING DETAIL

SCALE: NTS

CABLE TAP DOWN AT 45° TO VERTICAL STEEL SURFACE INCLUDING



TO FLAT STEEL

OR HORIZONTAL PIPE

CABLE TAP TO TOP

DO NOT INSTALL CABLE GROUND

WEATHERPROOFING KIT,

APPROVED GROUND

CONNECTOR KIT, TYP.

ANTENNA CABLE TO

- TINNED, SOLID COPPER BUSS

GROUND BAR OR EQUIVALENT

OR BUILDING GROUND SYSTEM

BAR, HARGER TGBI14420M

- #2 BTCW TYP TO BGR MGB

CABLE TRAY, TYP.

#6 AWG

APPROVED

KIT AT A BEND AND AI WAYS DIRECT GROUND WIRE DOWN TO CIGBE.

OF GROUND ROD

SURFACE

YPE GT (THROUGH CABLE O GROUND ROD THROUGH CABLE TO TOP OF **GROUND ROD**

TEE OF HORIZONTAL

RUN AND TAP CABLES



TAP OF HORIZONTAL CABLE TO EDGE OF HORIZONTAL

THROUGH VERTICAL

CABLE TO VERTICAL

STEEL SURFACE OR

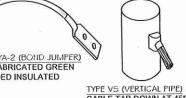
EITHER HORIZONTAL

TO THE SIDE OF

TWO HOLE- LONG BARREL

PARALLEL TAP CABLES



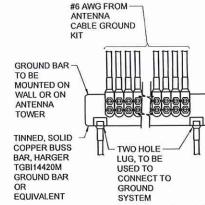


CROSS OF HORIZONTAL

CABLES. LAPPED AND

NOT CUT

CABLE TAP DOWN AT 45° TO RANGE OF VERTICAL PIPES



NOTE:

TIN COATED-SOLID -

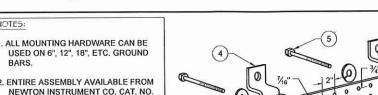
CONTRACTOR TO UTILIZE KOPR-SHIELD (THOMAS & BETTS) OR EQUIVALENT ON ALL LUG CONNECTIONS

GROUNDING DETAIL

SCALE: NTS

GROUNDING DETAILS SCALE: NTS

NOTES:



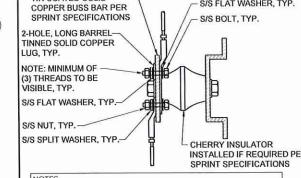


2106060010 OR AS HARGER

TGBI14420M.

- 1) TINNED COPPER GROUND BAR, ¼" x 4" x 20", NEWTON CO., HARGER TGBI14420M, OR EQUIVALENT. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
- (2) INSULATORS. INSTRUMENT CO. CAT. NO. 3061-4 OR HARGER EQUIVALENT.
- (3.) 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUIVALENT.
- (4) WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056 OR HARGER EQUIVALENT.
- (5) $\frac{1}{2}$ " x 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1 OR HARGER EQUIVALENT.





NOTES:

1, ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING SPLIT

2. COAT WIRE END WITH ANTI-OCIDATION COMPOUND PRIOR TO INSERTION INTO LUG BARREL AND CRIMPING.

3. APPLY ANTI-OXIDATION COMPOUND BETWEEN ALL LUGS AND BUSS BARS PRIOR TO MATING AND BOLTING.

GROUNDING DETAIL

(7)

SCALE: NTS





2 12/01/22 REVISED TO INCLUDE PARCEL MAP 1 05/03/22 REVISED PER LL COMMENTS 0 05/25/22 ISSUED AS FINAL

MARK DATE DESCRIPTION ISSUE FINAL PROJECT TITLE:

DATE 05/25/2022

T··Mobile

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James R. Skowronski

DOCUMENT MUST CONTAIN ORIGINAL

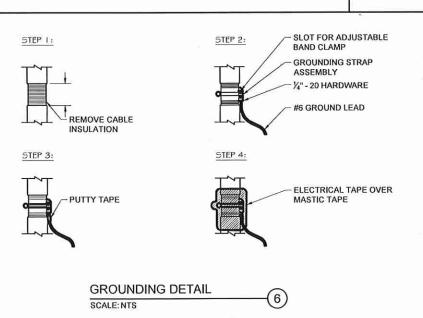
NJ01221A (NY54XC668)

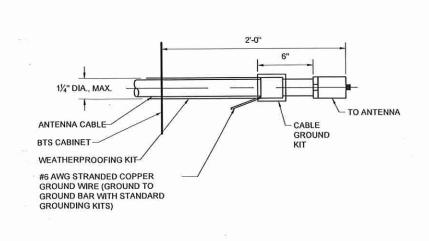
318 GARRISON ROAD PHILLIPSBURG, NJ 08865 WARREN COUNTY

GROUNDING DETAILS

SCALE: NONE

55895 PROJECT G-2





GROUNDING DETAIL

SCALE: NTS

